

IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
DEAV2003/0007 US NP

Examiner: Not Yet Assigned

Application No.: 10/770.654

Art Unit: 1756

Filed: February 3, 2004



Title: N-SUBSTITUTED (BENZOIMIDAZOL-2-YL)  
PHENYLAMINES, PROCESS FOR THEIR  
PREPARATION, THEIR USE AS A MEDICAMENT  
OR DIAGNOSTIC AID, AND A MEDICAMENT  
COMPRISING THEM

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

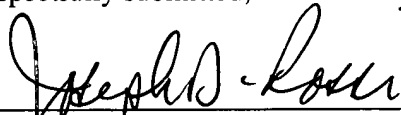
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

- ☒ (a) This Information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application, or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. 18-1982.

- ☐ (b) This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.113 or a notice of allowance under §1.311, whichever occurs first.
- ☐ (1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;
- ☐ (2) The undersigned attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned attorney after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this statement; or
- ☐ (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97(c) is authorized.

Respectfully submitted,

  
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Attorney/Agent for Applicant

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Aventis Docket No. DEAV2003/0007 US NP

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**Complete if Known**

<b>Application Number</b>	10/770,654
<b>Filing Date</b>	02-03-2004
<b>First Named Inventor</b>	HEINELT
<b>Group Art Unit</b>	
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	DEAV2003/0007 - US - NP

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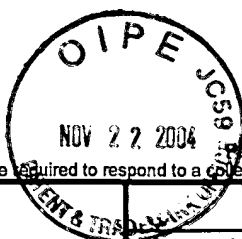
Sheet	1	of	3	Attorney Docket Number	DEAV2003/0007 - US - NP
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[illegible][illegible]Date  
Considered

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of 3

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First Named Inventor	HEINELT
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEAV2003/0007 - US - NP

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		AKHTER, et al., Squalamine, a Novel Cationic Steroid, Specifically Inhibits the Brush-border Na <sup>+</sup> /H <sup>+</sup> Exchanger Isoform NHE3, The American Physiological Society, 1999, c136-c144	
		ERNSBERGER, et al., Clonidine Binds To Imidazole Binding Sites As Well As Alpha2-Adrenoceptors In The Ventrolateral Medulla, European Journal of Pharmacology, 134 (1987) 1-13	
		FLIEGEL, et al., Regulation And Characterization Of The Na <sup>+</sup> /H <sup>+</sup> Exchanger, Biochem. Cell. Biol., 76: (1998), 735-741	
		JACOBSON, et al., Chem. Ber. (1908), 41, 524	
		JANSSENS, et al., New Antihistaminic N-Heterocyclic 4-Piperidinamines. 1. Synthesis and Antihistaminic Activity of N-(4-Piperidiny)-1H-Benzimidazol-2-Amines, J. Med. Chem. (1985), 28, 1925-1933	
		JEN, et al., Amidines and Related Compounds. 6. Studies on Structure-Activity Relationships of Antihypertensive and Antisecretory Agents Related to Clonidine, Journal of Medicinal Chemistry, 1975, Vol. 18, No. 1., 90-99	
		MA, et al., Expression And Localization Of Na <sup>+</sup> /H <sup>+</sup> Exchangers In Rat Central Nervous System, Neuroscience, (1997), Vol. 79. No. 2. pp. 591-603.	
		MOHSEN, et al., The Cyclodesulfurization Of Thio Compounds; VII. A New Facile Synthesis Of Na-Substituted Benzimidazoles, Communication, January 1974, S. 41-42	
		ORLOWSKI, et al., Molecular Cloning Of Putative Members Of The Na/H Exchanger, J. Biological Chemistry, 1992, vol. 267, 9331-9339	
		RASTOGI, et al., 2-Aminobenzimidazoles In Organic Syntheses, Synthesis, (1983), 861--882	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet 3 of 3

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## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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Examiner  
Signature

Date  
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